

Respectfully submitted,

NASHEF, AWS, ET AL.

BY:



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Marked-Up Copy of Amended Claims

1. (Amended) A catheter having a distal end and a wall, the catheter comprising a heat transfer device located approximately at [or near] its distal end, wherein the heat transfer device is [layered or coated onto or into] engaged with the catheter wall.
2. (Amended) A catheter as claimed in Claim 1 wherein the heat transfer device is a flexible film having at least one [or more] electrical resistor flow path[s thereon or therethrough], which film is locatable around the catheter wall.
3. (Amended) A catheter as claimed in Claim 2 wherein the film is a flexible metal film on which the at least one [or more] electrical path[s have] has been [etched or otherwise created] formed.
4. (Amended) A catheter as claimed in Claim 2 wherein the at least one [or more] electrical path[s are] is located on [added onto] a plastic film backing.
5. (Amended) A catheter as claimed in Claim 4 wherein the at least one [or more] electrical path[s are] is added by a deposition process.
6. (Amended) A catheter as claimed in Claim 4 wherein the at least one [or] electrical path[s are] is added by a coating process.
11. (Amended) A catheter as claimed in Claim 10 wherein the printing process uses a conductive [ink or a conductive layer] medium, with subsequent etching.
12. (Amended) A catheter as claimed in [any one of Claims 7-11] Claim 7 wherein a temperature sensor material is also disposed onto the catheter wall by a deposition process.
13. (Amended) A catheter as claimed in [any one of the preceding Claims] Claim 1 wherein the heat transfer device includes at least one [or more temperature sensors or sensor leads] sensing element.

14. (Amended) A catheter as claimed [in any one of the preceding Claims] Claim 1 wherein at least one [or more] insulator layer[s are] is located over the resistor structure.
15. (Amended) A catheter as claimed in Claim 14 wherein the at least one [of the] insulator layer[s] is made from parylene C.
16. (Amended) A catheter as claimed in [any one of the preceding Claims] Claim 1 wherein the heat transfer device [comprises an outer or penultimate outer] an outwardly located layer of material selected from a group consisting of silver [or] and gold.
17. (Amended) A catheter as claimed in Claim 1 wherein a length of the outer wall of the catheter is at least [wholly, substantially or] partly formed from doped material able to act as a heat transfer device upon application of power therethrough.
18. (Amended) A catheter as claimed in Claim 17 wherein the doped material is selected from a group consisting of silver [or] and gold.
19. (Amended) A catheter having a wall [wherein the catheter wall has] the catheter comprising at least one [or more] metal wire[s] located in at least a portion of the wall [therethrough].
20. (Amended) A catheter as claimed in Claim 19 wherein the [or each] at least one wire is copper.
21. (Amended) A catheter as claimed in Claim 19 [or Claim 20] wherein the [or each] at least one wire is co-extruded within the catheter body.
22. (Amended) A catheter as claimed in [any one of Claims 19-21] Claim 19 wherein the catheter wall includes at least one [or more] set[s] of wires.

24. (Amended) A catheter as claimed in [any one of Claims 19-24] Claim 19 wherein [they or] each wire inside the catheter wall is easily exposable.
25. (Amended) A catheter as claimed in [any one of Claims 1-18] Claim 1 [in combination with a catheter as claimed in any one of Claims 19-24] wherein the catheter wall has at least one metal wire located in at least a portion of the wall.
26. (Amended) A catheter as claimed in [any one of the above Claims] Claim 1 wherein the catheter has a diameter of between approximately size 3 [-] to 5 F.
27. (Amended) A catheter as claimed in [any one of the preceding Claims] Claim 1 having a single distal lumen.
28. (Amended) A catheter as claimed in Claim 27 wherein the lumen has a diameter of between approximately [0.5-07] 0.5 to 0.7 mm.